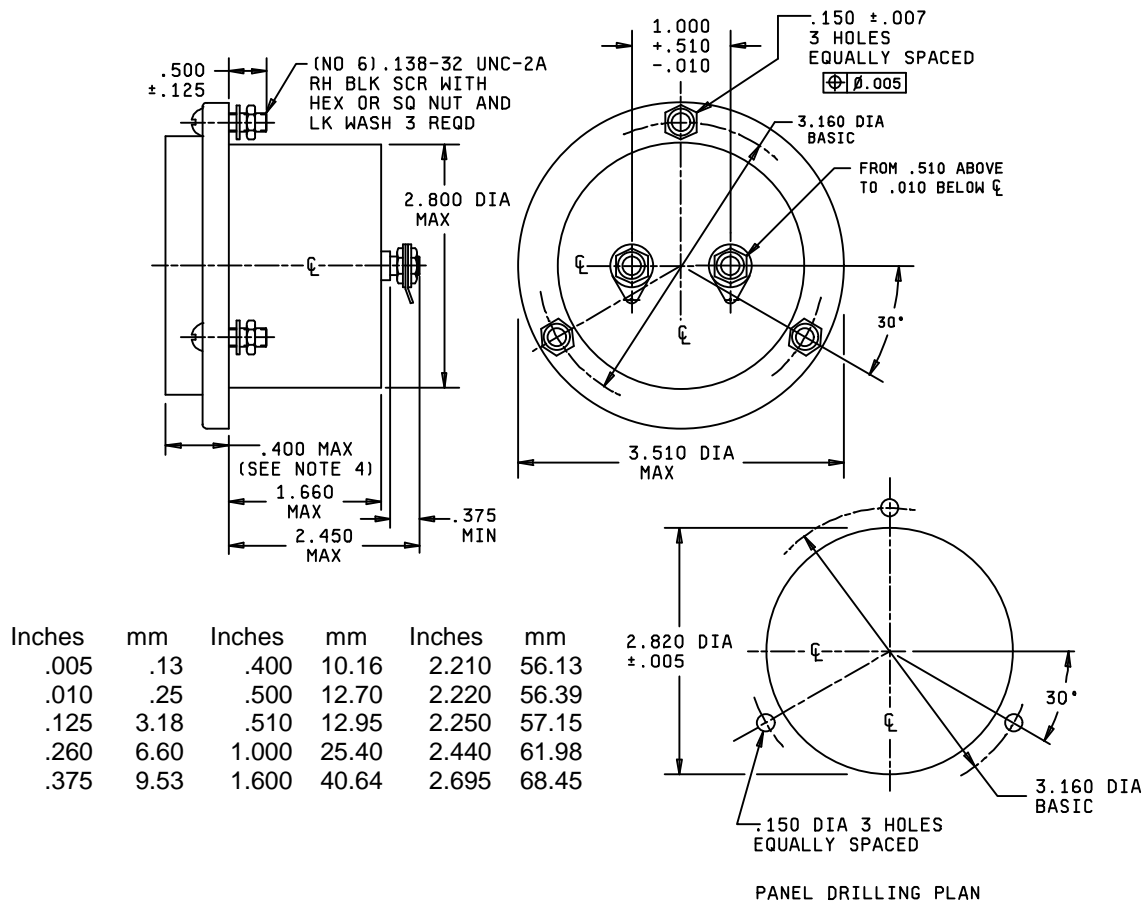


PERFORMANCE SPECIFICATION SHEET

METERS, ELECTRICAL INDICATING, PANEL TYPE, RUGGEDIZED:
AMMETER, DC (FLUSH MOUNTING, ROUND FLANGE, 3½ INCH), STYLE 36

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the meters described herein
shall consist of this specification and MIL-PRF-10304.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Tolerance is ±1/2° on angles.
4. Maximum projection from front panel including mounting gaskets (if used).

FIGURE 1. Meter, panel type.

MIL-PRF-10304/12F

REQUIREMENTS:

(Readings expressed as a percent of full-scale value.)

Dimensions and configuration: See figure 1.

Full-scale ranges: See table I.

Scale:

Length: 2 inches minimum.

Pointer deflection: 90° minimum.

Position influence: ± 2 percent change of 60° rotation from normal operating position.

Accuracy: ± 2 percent.

Overshoot: 40 percent maximum .

Response time: 2 seconds maximum.

Power consumption (loss) (at end scale deflection): 1 mA ± 5 percent.

Microammeters and milliammeters: 150 mV maximum.

Ammeters (self-contained): 75 mV maximum.

Ammeters (external shunt): 50 mV ± 2 percent with leads of 0.065 ± 0.010 ohms resistance.

High temperature cycling:

± 4 percent.

± 2 percent permanent change.

Temperature influence: ± 1 percent change.

Exposure to extreme temperatures: ± 3 percent permanent change.

Overload capacity:

Momentary overload: ± 2 percent permanent change.

Sustained overload:

± 1 percent temporary zero shift.

± 1 percent permanent zero shift.

± 2 percent permanent change.

Dielectric withstanding voltage: 3,000 volts rms.

Vibration, random drop and shock: Repeatability is not applicable for those microammeters below 100 μ A ranges.

TABLE I. Full-scale ranges.

Microamperes		Milliamperes		Amperes		Kiloamperes <u>1/</u>
Zero left	Zero center	Zero left	Zero center	Zero left	Zero center	
20	30-0-30	1	1-0-1	1	5-0-5	1.0
50	50-0-50	5	5-0-5	2	10-0-10	1.2
100	100-0-100	10	10-0-10	5	<u>1/</u> 10-0-30	
200	200-0-200	30	30-0-30	10	<u>1/</u> 20-0-20	
500	300-0-300	50	50-0-50	20	<u>1/</u> 30-0-30	
	500-0-500	100	100-0-100	30	<u>1/</u> 50-0-50	
		200	200-0-200	<u>1/</u> 50		
		300	300-0-300	<u>1/</u> 100		
		500	500-0-500	<u>1/</u> 200		
				<u>1/</u> 300		
				<u>1/</u> 500		

1/ Used with external shunt.

Custodians:

Army - CR
 Navy - SH
 Air Force - 99
 DLA - CC

Preparing activity:
 DLA - CC

(Project 6625-0868)

Review activities:

Air Force - 11
 Army - AT, AV, CR4, EA, MI
 Navy - MC